

FIGURE 1

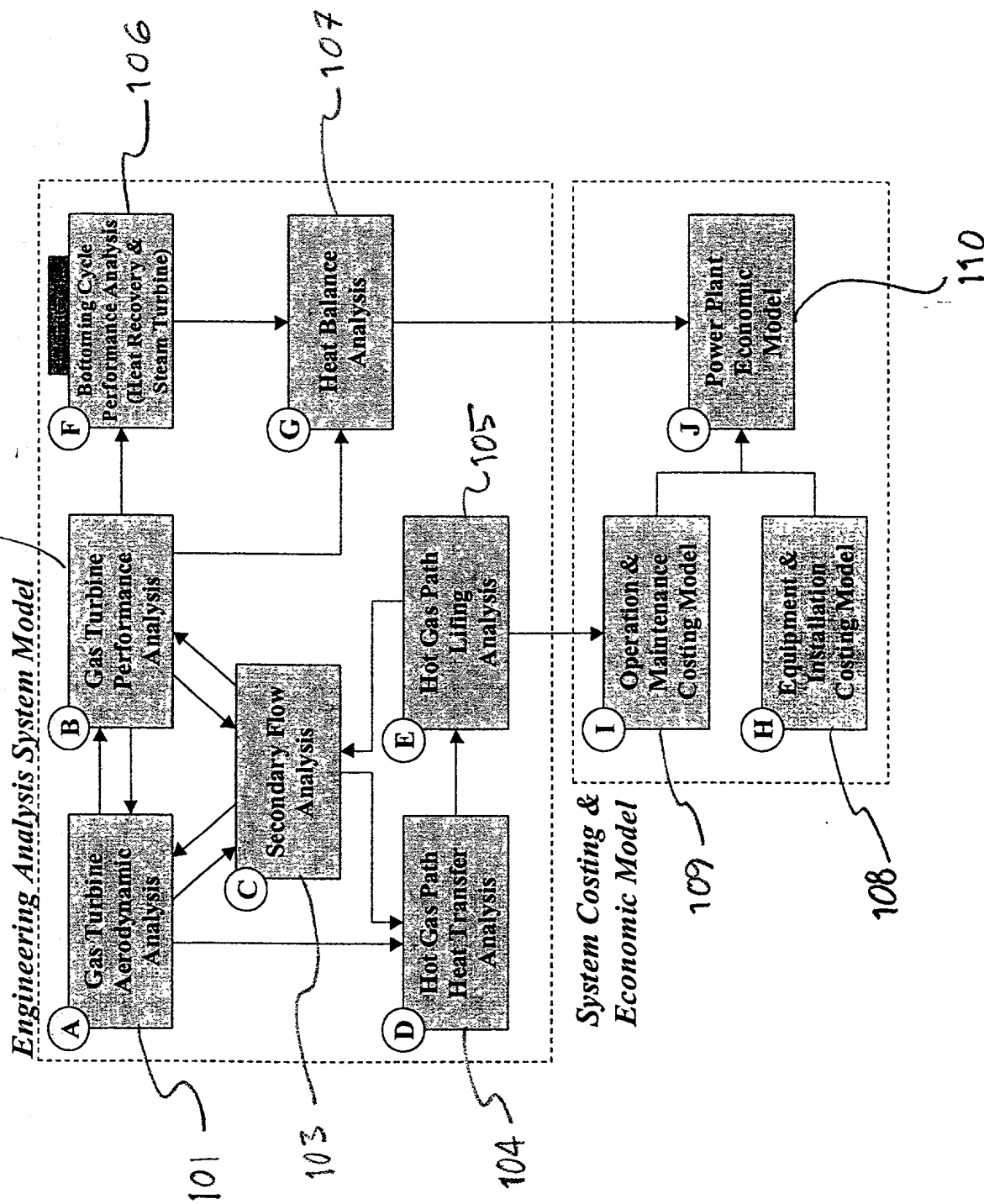


FIGURE 2

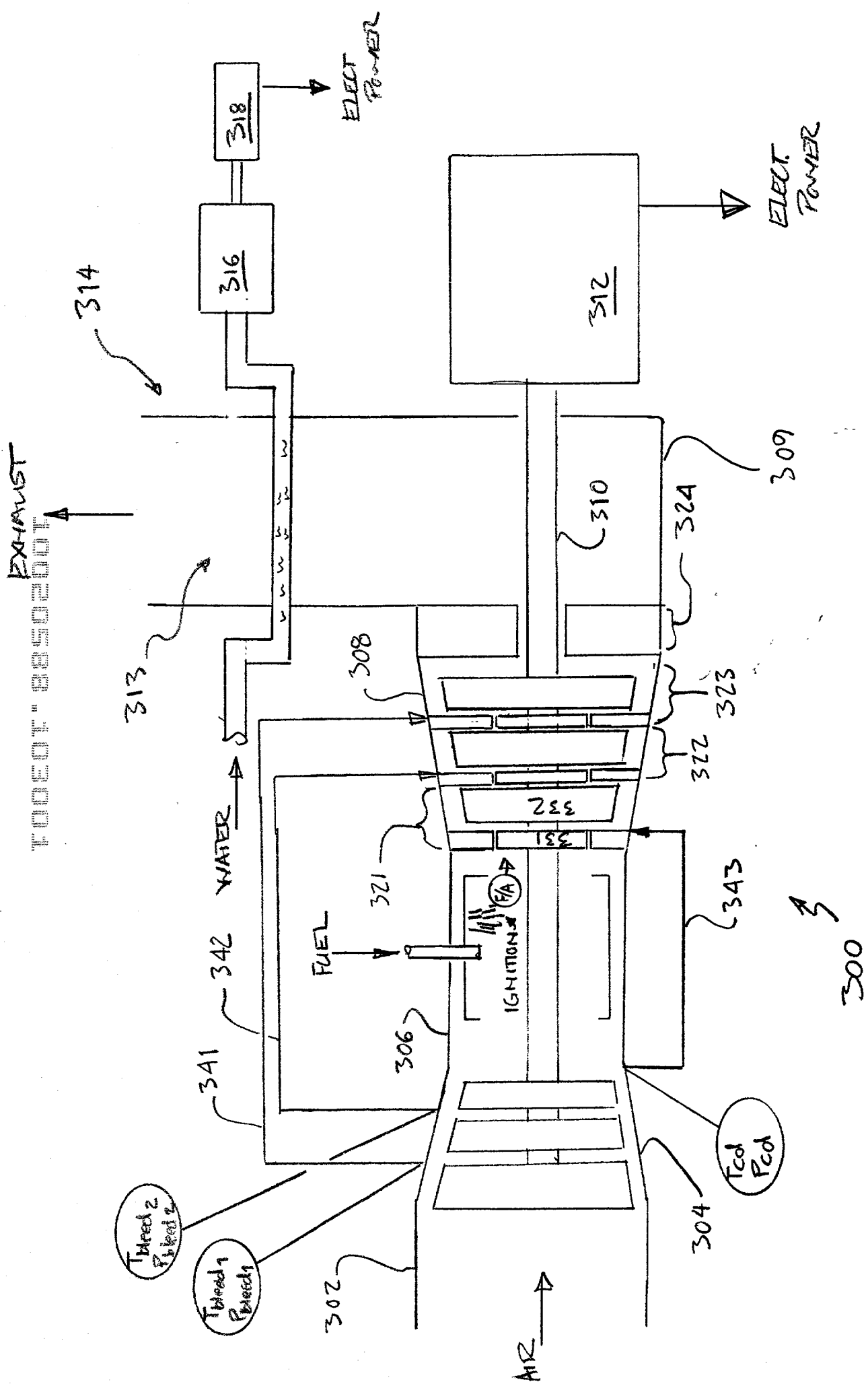
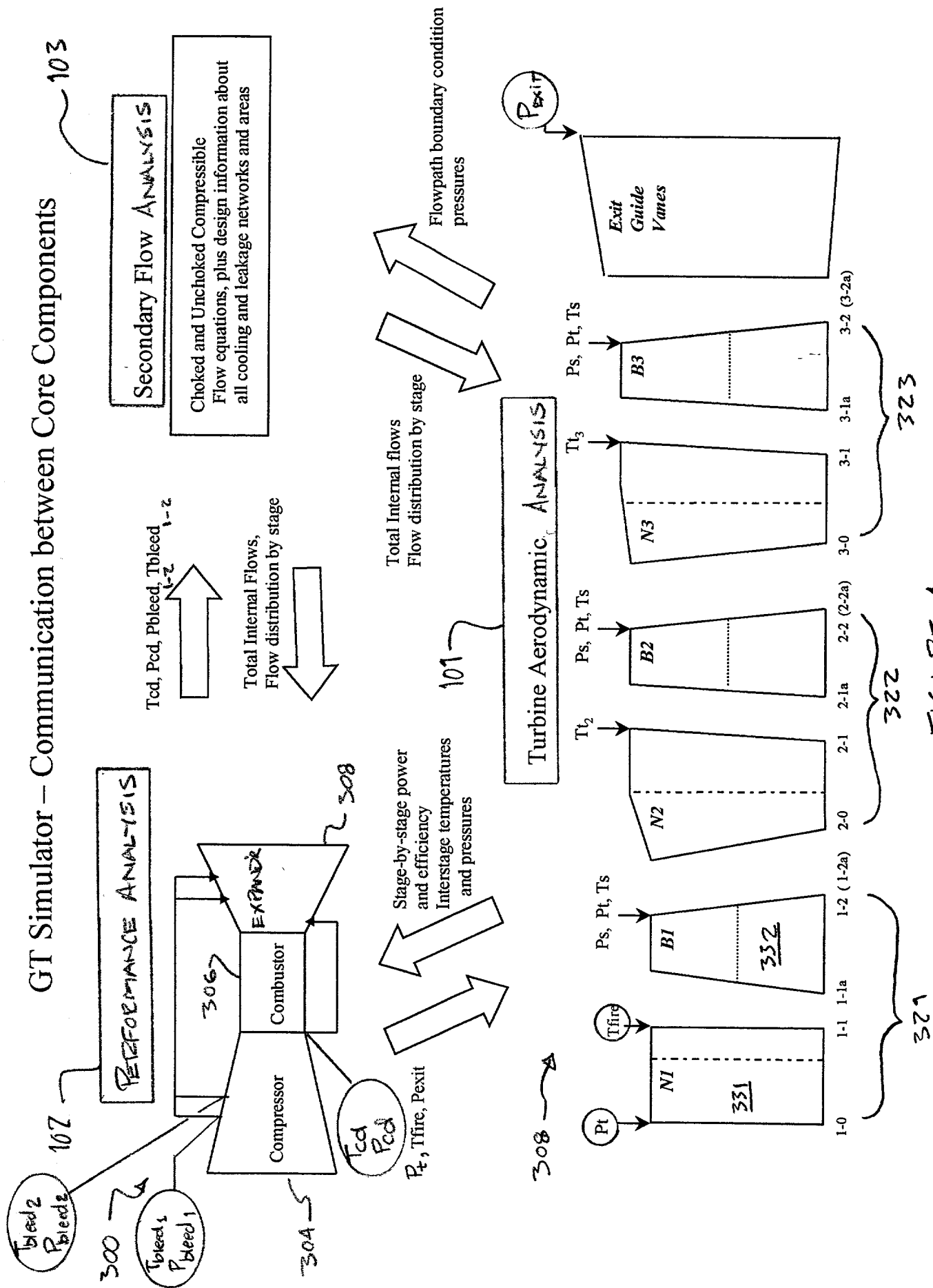


FIGURE 3



INNER LOOP
START.

$i = 1$

PERF. MODULE
DETERMINES:
 P_{ti} , T_{firei} , P_{exiti}

PERF. MODULE

X-FER P_{ti} , T_{firei}
& P_{exiti} TO
AERO. MODULE

AERO. MODULE
DETERMINES:
INTERSTAGE VAR-
IABLES, STAGE
POWERS & STAGE
EFFICIENCIES

AERO. MODULE

X-FER INTER-
STAGE VARIABLES,
ETC, TO PERF.
MODULE

PERF. MODULE
UPDATES MODEL
& DETERMINES:
 P_{ti+1} , $T_{firei+1}$, $P_{exiti+1}$

COMPARE:
 $P_{ti+1} \rightarrow P_{ti}$
 $T_{firei+1} \rightarrow T_{firei}$
 $P_{exiti+1} \rightarrow P_{exiti}$

YES

ARE
VALUES
W/I SPECIFIED
ERROR%
?

NO

PERF. MODULE &
AERO. MODULE
DETERMINE PERF.
PARAMETERS &
PROVIDE TO OTHER
ANALYSIS MODULES



ROUTINE COMPLETE

$i = i + 1$

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FIG 5

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OUTER LOOP
START

$i' = 1$

PERF. MODULE & AERO. MODULE
PERFORM INNER LOOP; DETER-
MINE VARIABLES INCLUDING
 P_{ei} , T_{firei} , P_{exiti}

PERF. MODULE & AERO. MODULE
PROVIDE SECONDARY FLOW
PARAMETERS & FLOW PATH
BOUNDARY CONDITION
PRESSURES TO SEC'DY
FLOW MODULE

SEC'DY FLOW MODULE
DETERMINES INTERNAL
FLOW DISTRIBUTION VAR.

SEC'DY FLOW MODULE X-FER
INTERNAL FLOW DISTR.
VARIABLES TO PERF. MOD-
ULE AND AERO. MODULE

PERF. MODULE & AERO. MOD-
ULE UPDATE MODELS W/
DATA FROM SEC'DY FLOW
MODULE

PERF. MODULE DETERMINES:
 P_{ei+1} , $T_{firei+1}$, $P_{exiti+1}$

COMPARE: $P_{ei+1} \rightarrow P_{ei}$
 $T_{firei+1} \rightarrow T_{firei}$
 $P_{exiti+1} \rightarrow P_{exiti}$

YES

ARE
VALUES W/ SPECIFIED
ERROR % ?

NO

$i' = i' + 2$

620

PERF. MODULE,
AERO. MODULE &
SEC'DY FLOW
MODULE PROVIDE
PARAMETERS TO
OTHER ANALYSIS
MODULES

ROUTINE COMPLETE

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FIG. 6

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New Screen Print for PDF File: Figure #7

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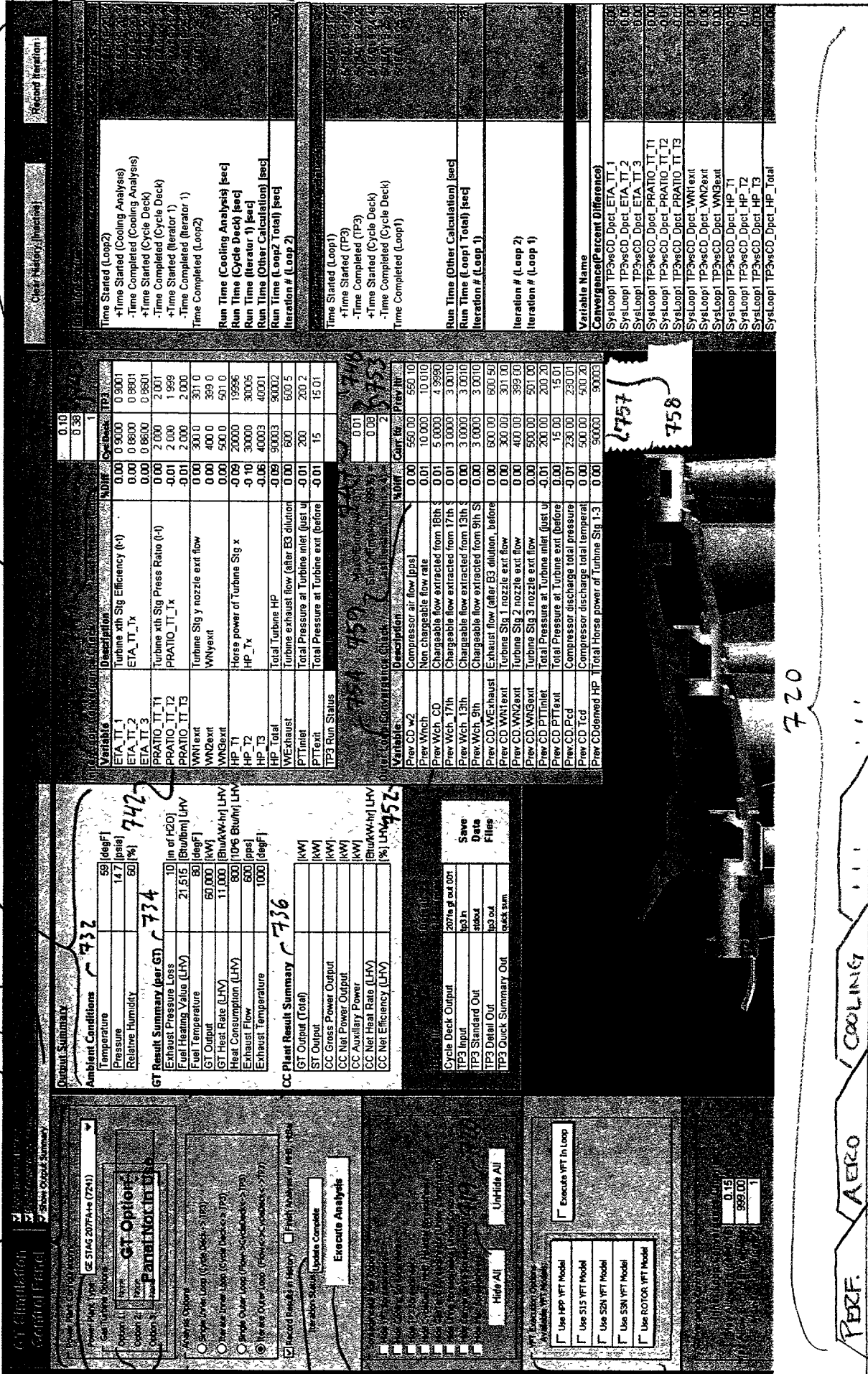


FIGURE 7

New Screen Print for PDF File: Figure #8

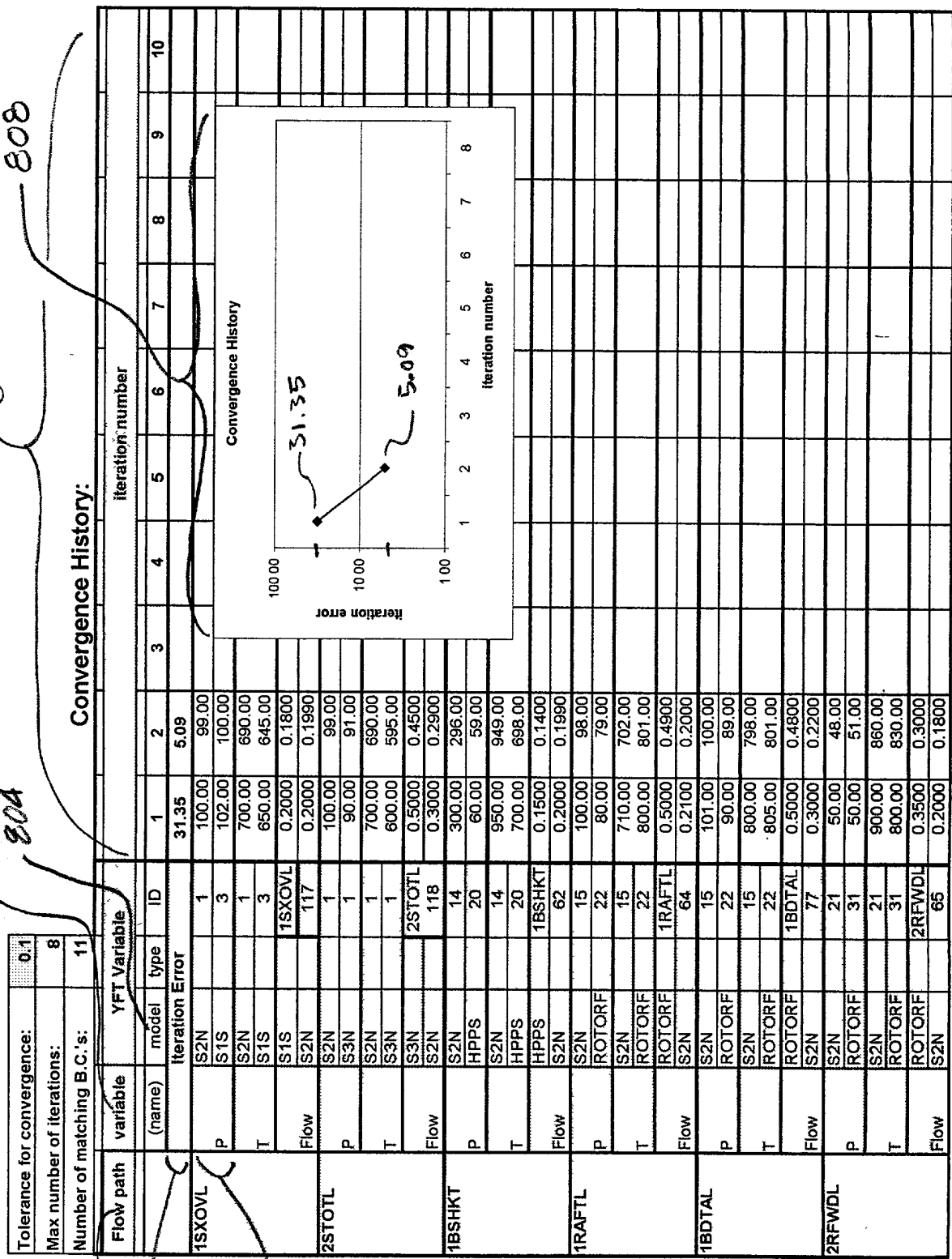


FIGURE 8

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